

GILA RIVER BASIN

09484590 DAVIDSON CANYON WASH NEAR VAIL, AZ

LOCATION.--Lat 31°59'37", long 110°38'40", SW¹/₄SE¹/₄ sec.31, T.16 S., R.17 E., Hydrologic Unit 15050302, on right bank 0.3 mi upstream from Interstate Highway 10, 2.0 mi upstream from mouth, and 5.5 mi southeast of Vail.

DRAINAGE AREA.--50.5 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1968	07-26-68	3,040		1975	07-08-75	708	
1969	08-05-69	587		1976	07-12-76	3,550	
1970	07-20-70	6,860		1977	09-10-77	2,400	
1971	08-10-71	1,490		1978	10-06-77	3,040	
1972	09-07-72	1,320		1979	08-15-79	105	
1973	10-19-72	28		1980	09-07-80	1,740	
1974	09-21-74	1,460		1981	07-27-81	4,480	

Magnitude and probability of instantaneous peak flow based on period of record 1968-81

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
1,900	3,430	4,640	6,380	7,800	9,340
Weighted skew	(logs) =	-0.11			
Mean	(logs) =	3.27			
Standard dev.	(logs) =	0.31			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
86.2	13.6	4,340	0.0	1.0	14.9	1.9	4.1

